Amendments to the Claims

This listing of claims replaces all prior versions, and listings, of claims in the application.

Listing of Claims

Claim 1. (Currently amended) [[:]] A method for of removing an acidic gas component from a raw gas, comprising contacting a the raw gas containing an acidic gas component to with an aqueous alkanolamine solution [[,]] wherein that includes a composition comprising having an organopolysiloxane having with a polyoxyalkylene group and a fine silica powder is present.

Claim 2. (Currently amended) [[:]] The method for removing an acidic gas component from a raw gas according to claim 1, wherein a the composition comprising an organopolysiloxane having a polyoxyalkylene group and a fine silica powder is optionally added to the aqueous alkanolamine solution, based on a foaming state in a system of for removing an—the acidic gas, from the outside the system.

Claim 3. (Currently amended) [[:]] The method for removing an acidic gas from a raw gas according to claim 1, wherein the composition is added to an the aqueous alkanolamine solution in which a composition comprising an organopolysiloxane having a polyoxyalkylene group and a fine silica powder had been contained

is used before the aqueous alkanolamine solution contacts the raw gas.

Claim 4. (Currently amended) [[:]] The method for removing an acidic gas component from a raw gas according to claim 1, wherein the specific surface area of the fine silica powder is has a specific surface area of 50 m²/g or more.

Claim 5. (Currently amended) [[:]] The method for removing an acidic gas component according to claim 1, wherein the composition comprising an organopolysiloxane having a polyoxyalkylene group and a fine silica powder is present in an amount of 0.1 to 5000 ppm based on the aqueous alkanolamine solution.

Claim 6. (Currently amended) [[:]] An additive for an aqueous amine solution for removing an acidic gas, to be added to an amine solution for removing an acidic gas with an aqueous the solution containing 40 % by mass or more of an alkanolamine, (referred to as an amine hereinafter), wherein the composition comprising an organopolysiloxane having a polyoxyalkylene group and a fine silica powder is present in an amount of 0.1 to 5000 ppm.

Claim 7. (Currently amended) [[:]] The additive for an amine solution for removing an acidic gas according to claim 6, which is wherein the additive is a mixture of 50 to 99 % by mass of an the organopolysiloxane having a the polyoxyalkylene group, represented by formula (1), and 1 to 50 % by mass of a the fine silica powder having a specific surface area of 50 m²/g or more

$$R^{1}_{2}XSi - (R^{1}_{2}SiO)_{m} - (R^{1}YSiO)_{n} - SiR^{1}_{2}X$$
 (1)

(provided that R^1 represents a monovalent hydrocarbon group having 1 to 6 carbon atoms; X represents an alkoxy group having 1 to 4 carbon atoms, a hydroxyl group, R^1 or Y; Y represents $-R^2O-(C_pH_{2p}O)_q-R^3$; R^2 represents a divalent hydrocarbon group having 3 to 6 carbon atoms; R^3 represents a hydrogen atom, a hydrocarbon group having 1 to 4 carbon atoms, or an acyl group; m is an integer of 10 to $200[[,]]_{\underline{i}}$ n is 0 or an integer of 1 to $50[[,]]_{\underline{i}}$ p is an integer of 2 to $4[[,]]_{\underline{i}}$ and q is an integer of 5 to 50, provided that when n is 0, X is Y).

Claim 8. (Currently amended) [[:]] The additive for an amine solution for removing an acidic gas according to claim 6.7, composed of wherein the additive is a mixture of 50 to 98 % by mass of an the organopolysiloxane having a the polyoxyalkylene group, represented by the formula (1), 1 to 50 % by mass of a the fine silica powder having a BET specific surface area of 50 m²/g or more, and 1 to 40 % by mass of a nonionic surfactant.

9. (New) A method of removing an acidic gas component from a raw gas, comprising contacting the raw gas with an aqueous alkanolamine solution that includes 40 % by mass or more of an alkanolamine and an additive having an organopolysiloxane with a polyoxyalkylene group and a fine silica powder, the additive being present in an amount of 0.1 to 5000 ppm based on the aqueous alkanolamine solution and being a mixture of 50 to 99 % by mass of the organopolysiloxane having the polyoxyalkylene group, represented by formula (1)

$$R_{2}^{1}XSi - (R_{2}^{1}SiO)_{m} - (R_{2}^{1}YSiO)_{n} - SiR_{2}^{1}X$$
 (1)

provided that R^1 represents a monovalent hydrocarbon group having 1 to 6 carbon atoms; X represents an alkoxy group having 1 to 4 carbon atoms, a hydroxyl group, R^1 or Y; Y represents $-R^2O-(C_pH_{2p}O)_q-R^3$; R^2 represents a divalent hydrocarbon group having 3 to 6 carbon atoms; R^3 represents a hydrogen atom, a hydrocarbon group having 1 to 4 carbon atoms, or an acyl group; m is an integer of 10 to 200; n is 0 or an integer of 1 to 50; p is an integer of 2 to 4; and q is an integer of 5 to 50, provided that when n is 0, X is Y, and

1 to 50 % by mass of the fine silica powder having a specific surface area of 50 m^2/g or more.

- 10. (New) The method according to claim 9, further comprising a step of providing an additional amount of the additive to the aqueous alkanolamine solution based on an amount of foaming during the acid gas removal.
- 11. (New) An additive for an aqueous alkanolamine solution that removes an acidic gas, comprising an organopolysiloxane having a polyoxyalkylene group and a fine silica powder, the additive being present in an amount of 0.1 to 5000 ppm based on the aqueous alkanolamine solution and being a mixture of 50 to 99 % by mass of the organopolysiloxane having the polyoxyalkylene group, represented by formula (1)

$$R^{1}_{2}XSi - (R^{1}_{2}SiO)_{m} - (R^{1}YSiO)_{n} - SiR^{1}_{2}X$$
 (1)

provided that R^1 represents a monovalent hydrocarbon group having 1 to 6 carbon atoms; X represents an alkoxy group having 1 to 4 carbon atoms, a hydroxyl group, R^1 or Y; Y represents $-R^2O-(C_pH_{2p}O)_q-R^3$; R^2 represents a divalent hydrocarbon group having 3 to 6 carbon atoms; R^3 represents a hydrogen atom, a hydrocarbon group having 1 to 4 carbon atoms, or an acyl group; m is an integer of 10 to 200; n is 0 or an integer of 1 to 50; p is an integer of 2 to 4; and q is an integer of 5 to 50, provided that when n is 0, X is Y, and

1 to 50 % by mass of the fine silica powder having a specific surface area of 50 m^2/g or more.

- 12. (New) The additive according to claim 11, wherein the additive is a mixture of 50 to 98 % by mass of the organopolysiloxane having the polyoxyalkylene group, represented by the formula (1), and further comprising 1 to 40 % by mass of a nonionic surfactant.
- 13. (New) The additive according to claim 11, wherein the aqueous alkanolamine solution includes 40 % by mass or more of an alkanolamine.
- 14. (New) An additive for an aqueous alkanolamine solution that removes an acidic gas, comprising an organopolysiloxane having a polyoxyalkylene group and a fine silica powder, the additive being present in an amount of 0.1 to 5000 ppm based on the aqueous alkanolamine solution and being a mixture of 50 to 98 % by mass of the organopolysiloxane having the polyoxyalkylene group, represented by formula (1)

$$R_{2}^{1}XSi - (R_{2}^{1}SiO)_{m} - (R_{2}^{1}YSiO)_{n} - SiR_{2}^{1}X$$
 (1)

provided that R¹ represents a monovalent hydrocarbon group having 1 to 6 carbon atoms; X represents an alkoxy group having 1

to 4 carbon atoms, a hydroxyl group, R^1 or Y; Y represents $-R^2O-(C_pH_{2p}O)_q-R^3$; R^2 represents a divalent hydrocarbon group having 3 to 6 carbon atoms; R^3 represents a hydrogen atom, a hydrocarbon group having 1 to 4 carbon atoms, or an acyl group; m is an integer of 10 to 200; n is 0 or an integer of 1 to 50; p is an integer of 2 to 4; and q is an integer of 5 to 50, provided that when n is 0, X is Y,

1 to 50 % by mass of the fine silica powder having a specific surface area of 50 m^2/g or more, and

1 to 40 % by mass of a nonionic surfactant, such that during the acid gas removal the additive suppresses foaming of the solution and reduces corrosion of an apparatus in which the removal occurs.